

Full Title of the Project: Full Title of the Project: Diversion of 0.00965 ha. of forest land for approach access road MS/HSD B Site Retail Outlet Dealership at Location Doraha WML, of Indian Oil Corporation Limited at Khasra No. 231 Village Kaddon on Doraha-Kaddon-Payal Road L/s, Tehsil Payal, Distt. Ludhiana. 24
Proposal No. : FP/PB/Approach/ 45533/2020
Date of Proposal: 25-5-2020
Email Address: kaddonretailoutlet12@gmail.com

CHECK LIST SERIAL NUMBER: 17
“SCHEME FOR COMPENSATORY AFFORESTATION”

Detailed scheme for Compensatory Afforestation to be carried out in lieu of of 0.00965 ha. of forest land for approach access road MS/HSD B Site Retail Outlet Dealership at Location Doraha WML, of Indian Oil Corporation Limited at Khasra No. 231 Village Kaddon on Doraha-Kaddon-Payal Road L/s, Tehsil Payal, Distt. Ludhiana.

1. **Details of degraded forest land/non-forest land:-**
District: **Ludhiana** Village: **Hadiwal**
Tehsil: **Koom Kalan**
Name of Forest Division:-**Ludhiana** Range:-**Mattewara**
Block/Compartment/Survey No Protected Forest:- **Garhi Fazil C. No. 1** Area of CA in this Case is **0.10 Ha.**

2. **Description of the Area**


- I) whether the site selected for Compensatory Afforestation is a land bank or not: **Land Bank**
- II) If the CA site is other than the land bank, reasons be given: **A**
- III) In case of non- forest area identified for CA, and then what is the distance of CA site from the adjoining forest boundary: **NA**
- IV) Soil type : **Sandy Loam**
- V) Topography :
- (a) Hilly/Undulating/Plain
- (b) Slope: Steep/Medium/Gentle
- VI) Whether the area is bearing any root stock of vegetation:

3. **Plantation Model:-**
Copy of the approved Compensatory Afforestation Scheme/Model showing component - wise physical and financial break up to be enclosed

4. Schedule of Plantation Programme:-

Details of year-wise break up of requirements of funds is as under:-:

Year	Area in Ha.	Rate/ Ha.	Total Amount
0 th Year	0.10	190659.32	19066.00
1 st Year	0.10	75844.30	7584.00
2 nd Year	0.10	47818.60	4782.00
3 rd Year	0.10	44353.09	4435.00
4 th Year	0.10	40839.50	4084.00


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5 th Year	0.10	6153.00	615.00
6 th Year	0.10	6153.00	615.00
7 th Year	0.10	6153.00	615.00
8 th Year	0.10	6153.00	615.00
9 th Year	0.10	6153.00	615.00
10 th Year	0.10	6153.00	615.00
Over Head Expenses @ 5% + Wage Enhancement @ 10%	0.10	65465.00	6549.00
Total		501898/-	50190.0

5. **Technical details:-**

Technical details of Compensatory Afforestation Scheme are as follows:-

(a) **General Details:-** The area in which compensatory Afforestation is to be done falls along the **Garhi Fazil C.No.2 Forest** land of falls near this forest strip area of the strip is plain and growing stock already existing is less & needed to be Afforestation.

(b) **Spacement:- 3x3mt**

(c) **Species:- Shisham, Dek, Tun, Arjun, Sirs.**

(d) **Plantation Method:- Trench & Pits.**

(e) **Soil and Moisture Conservation Works:- NA**

(f) **Protection (Fencing, Watch man. People's Participation etc.):-** Fencing, Watch

man

(g) **Proposal Monitoring Mechanism:-** Segment of plantation to be made.

Monitoring is to be done by Forester = 100% Checking, Range Officer = 25 %, D.D. RO. = 10%, D. RO. 5%.

(h) **Any other information:-**

17.7.2020

udhiana.

[Signature]
Divisional Forests Officer,
Ludhiana Forest Division,
Ludhiana.
[Signature]


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Plantation Model For Standard Plantation under Compensatory Afforestation
 Wage Rate : Rs. 338.05
 Plants Per Hectare : 1000 Nos.

Sr. No.	Name of Work	Unit	Qty.	Unit Cost (in Rs.)	Amount
	Nursery				
	Nursery cost of raising plants	1100	1100	20.61	22671.00
A	Soil Work				
1	Site / Jungle Clearance (25%)	Ha.	0.5	5531.67	2765.84
2	Alignment & Dagbaling	Ha.	1	1014.15	1014.15
3	Earth works in Digging of Pits 1000 x 0.5 m x 0.5 m x 0.4 m	1 M3	100	104.49	10449.00
4	Kana Stubbing 25%	Ha.	0.25	27658.26	6914.57
B	Plantation Work				
1	Refilling of Pits 1000x0.5mx0.5mx0.3	100 cum	75	2835.17	2126.38
2	Loading & Unloading of Plants (1000+10% Wastage=1100)	100 No.	1100	566.85	6235.35
3	Carriage of Plants (1000+10% wastage =1100 avg. distance upto 10 km.)	100 No.	1100	202.83	2231.13
4	i) Carriage from site to site	100 No.	1000	135.22	1352.20
5	ii) Planting of Plants (1000 No. including 10% replacement)	100 No.	1000	1014.15	10141.50
6	Spot Irrigation (1000 Plants)	100 No.	1000	211.28	2112.80
7	Application of Insecticide (2 Times)	100 No.	1000	42.26	422.60
8	Application of Fertilizers (2 Times)	100 No.	1000	42.26	422.60
9	Weeding & Hoeing 3 Times	100 No.	3000	368.47	11054.10
10	Hand Watering (12 Times)	100 No.	12000	211.28	25353.60
11	Replanting of Plants 10%	100 No.	100	596.86	596.86
12	Rejungle Clearance (2 Times)	Per Ha.	1	2450.86	2450.86
13	Covering (25% plants) of plants	100 No.	250	304.25	760.63
14	Uncovering of plants	100 No.	250	33.81	84.53
15	Restubbing of Kana (1 Time)		0.25	27658.57	6914.64
16	Laying out & fixing of Barbed Wire	L/s			7872.00
17	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1 Man 7 Month	8789.30	6153.00
	Material				
	i) Insecticides / Fertilizers	L/s			5280.00
	ii) POL	L/s			5280.00
	iii) Barbed Wire	L/s			50000.00
	Sub Total				190659.32
	Maintenance 1 Year				
1	Cost of raising plants for 30% replacement	1 No.	300	20.61	6183.00
2	Reopening of Pits 300 x 0.50 x 0.50 x 0.30	1 m3	21.6	61.46	1382.85
3	Refilling of pits with earth in other soils 300 x 0.50 x 0.50 x 0.30	1 m3	21.6	28.31	636.98
4	Loading & Unloading of Plants	1 No.	300	2.54	762.00
5	Carriage of Plants (300+10% Wastage = 330 avg. distance upto 10 Km.)	100 No.	1	202.21	202.21
6	Spreading of plants pit to pit	100 No.	165	135.22	223.11
7	Re-Planting to plants	100 No.	165	339.16	559.61

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8	Spot Irrigation	100 No.	165	211.28	348.61
9	Weeding & Hoeing (Three)	100 No.	3000	368.47	11054.10
10	Application of Insecticide (2 Times)	100 No.	1000	42.26	422.60
11	Application of Fertilizers (2 Times)	100 No.	1000	42.26	422.60
12	Hand Watering (6 Times)	100 No.	6000	368.47	22108.20
13	Rejungle Clearance (2 Times)	Per Ha.	1	2450.86	2450.86
14	Restubbing of Kana	Per Ha.	0.25	27658.26	6914.57
15	Watch & Ward for every 10 Ha. (10 Months)	Man Year	1/10 Man Yr.	8789.30	6333.00
16	Repair of Barbed Wire	L/s			5280.00
17	POL & Machinery	L/s			5280.00
18	Material and Supply	L/s			5280.00
	Sub Total				75844.30
	2nd Year Maintenance				
1	Cost of raising plants for 15% replacement	1 No.	150	20.61	3091.50
2	Reopening of Pits 150 x 0.60 x 0.60 x 0.40	1 m3	21.6	61.46	644.00
3	Refilling of pits with earth in other soils 150x 0.60 x 0.60 x 0.40	1 m3	21.6	28.31	296.68
4	Loading & Unloading of Plants	1 No.	75	2.54	190.50
5	Carriage of Plants Wastage = 75 avg. distance upto 10 Km.)	500 No.	1	202.21	202.21
6	Spreading of plants pit to pit	100 No.	75	135.22	101.42
7	Re-Planting to plants	100 No.	75	236.11	177.08
8	Spot Irrigation	100 No.	75	211.28	158.46
9	Weeding & Hoeing (Twice)	100 No.	2000	368.47	7369.40
10	Hand Watering (5 Times)	100 No.	5000	211.28	10564.00
11	Rejungle Clearance (2 Times)	Per Ha.	1	2450.86	2450.86
12	Pruning to Plants	100 No.	100	399.49	399.49
13	Watch & Ward for every 10 Ha.	Man Year	1/10 Man Yr.	8789.30	6333.00
14	Repair of Barbed Wire	L/s			5280.00
15	POL & Machinery	L/s			5280.00
16	Material and Supply	L/s			5280.00
	Sub Total				47818.60
	3rd Year Maintenance				
1	Cost of raising plants for 10% replacement	1 No.	100	20.61	2061.00
2	Reopening of Pits 100 x 0.50 x 0.50 x 0.40	1 m3	10	6145.71	429.34
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	7.5	28.31	197.78
4	Loading & Unloading of Plants	1 No.	100	2.54	254.00
5	Carriage of Plants 50 avg. distance upto 10 Km.)	100 No.	100	1.03	103.00
6	Spreading of plants pit to pit	100 No.	100	135.22	135.22
7	Re-Planting to plants	100 No.	100	236.11	236.11
8	Spot Irrigation	100 No.	100	211.28	211.28
9	Weeding & Hoeing (thrice)	100 No.	2000	368.47	7369.40
10	Hand Watering (8 Times)	100 No.	5000	211.28	10564.00
11	Pruning to Plants 20%	100 No.	200	399.48	798.96
12	Watch & Ward for every 10 Ha.	Man Year	1/10 Man Yr.	8789.30	6153.00
13	Repair of Barbed Wire	L/s			5280.00
14	POL & Machinery	L/s			5280.00
15	Material and Supply	L/s			5280.00
	Sub Total				44353.09
	4th Year Maintenance				
1	Cost of raising plants for 5% replacement	1 No.	50	20.61	1030.50
2	Reopening of Pits 50 x 0.50 x 0.50 x 0.40	1 m3	5	6145.71	429.34
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	3.75	28.31	197.78
4	Loading & Unloading of Plants	1 No.	50	2.54	127.00


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5	Carriage of Plants 50 avg. distance upto 10 Km.)	100 No.	50	1.03	51.50
6	Spreading of plants pit to pit	100 No.	50	135.22	67.61
7	Re-Planting to plants	100 No.	50	236.11	118.06
8	Spot Irrigation	100 No.	50	211.28	105.64
9	Weeding & Hoeling (thrice)	100 No.	2000	368.47	7369.40
10	Hand Watering (8 Times)	100 No.	4000	211.28	8451.20
11	Pruning to Plants 30%	100 No.	300	299.49	898.47
12	Watch & Ward for every 10 Ha.	Man Year	1/10 Man Yr.	8789.30	6153.00
13	Repair of Barbed Wire	L/s			5280.00
14	POL & Machinery	L/s			5280.00
15	Material and Supply	L/s			5280.00
	Sub Total				40839.50
5th Year Maintenance					
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8789.30	6153.00
	Sub Total				6153.00
6th Year Maintenance					
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8789.30	6153.00
	Sub Total				6153.00
7th Year Maintenance					
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8789.30	6153.00
	Sub Total				6153.00
8th Year Maintenance					
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8789.30	6153.00
	Sub Total				6153.00
9th Year Maintenance					
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8789.30	6153.00
	Sub Total				6153.00
10th Year Maintenance					
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8789.30	6153.00
	Sub Total				6153.00
	Total				436432.80
	Over Head expenses 5%				43643.28
	Wage Enhancement @ 10%				501897.72
	G. Total				501898.00
	Or Say				

Cost of Compensatory Afforestation per Ha. For 7-10 Year
Rs. 486977 per Ha. = $501898 \times 0.10 = 50189.9$ or says 50190/-
Net Present Value per Ha. @ Rs. 887000 $\times 0.00965 = 8560/-$
Entry Point Activity (Tree Guards for VFC) = 5020
Grand Total = 63770/-



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